

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2727	bandwidth with test\$3 with (package\$3 information data (test adk segment))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 13:47
L2	0	identi\$3 with link\$3 with (test same segmenet)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 13:54
L3	4609606	packet\$3 information data stream\$3 (test same segmenet\$3) byt\$3 bit\$3 (data adj datagram) cell\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:20
L4	5630832	identi\$3 analys\$3 reconiz\$3 determin\$3 diagnos\$3 select\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 13:58
L5	4430342	send\$3 communicat\$3 assign\$3 forward\$3 repy\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:00
L6	5411056	manipulat\$3 alter\$3 chang\$3 modif\$3 rectif\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:17
L7	110073	router\$2 HLR gateway\$2 "routing table" "packet switching"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:19
L8	1857682	3 same 4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:29
L9	28770	8 same 7	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:29

L10	4580223	(node\$3 terminal\$3 pc laptop\$2 unit)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:30
L11	452912	5 same 3 same 10	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:31
L12	1126995	server\$3 controller\$3 manager\$3 administrator\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:33
L13	112008	11 same 12	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:33
L14	50624	6 same (time) same 3 same 12	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:34
L15	3571	(stamp profile) adj time	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:35
L16	18	9 and 13 and 14 and 15 and (3 same measur\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:37
L17	13	16 and (@ad<"20010330" @rlad<"20010330")	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 14:37
L18	33	(Ping and (ICMP adj echo adj request)) and @ad<"20010330"	USPAT	OR	OFF	2005/10/19 14:52
L19	37	Ping and (ICMP adj echo adj request)	USPAT	OR	OFF	2005/10/19 14:52
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L21	101	"6064653"	USPAT	OR	OFF	2005/10/19 14:52
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L23	0	Ping and (ICMP adj echo adj request) and SN	USPAT	OR	OFF	2005/10/19 14:52
L24	37	Ping and (ICMP adj echo adj request)	USPAT	OR	OFF	2005/10/19 14:52
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L27	0	(Smart adj node) and ICMP	USPAT	OR	OFF	2005/10/19 14:52
L28	18646	"22" and echo	USPAT	OR	OFF	2005/10/19 14:52
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L31	24	Smart adj node	USPAT	OR	OFF	2005/10/19 14:52
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L36	71	((burst adj length) and packet) and TCP	USPAT	OR	OFF	2005/10/19 14:52
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L39	2458962	degree adj\$8 Desynchronization	USPAT	OR	OFF	2005/10/19 14:52
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L42	1164973	Desynchronization adj\$3 degree	USPAT	OR	OFF	2005/10/19 14:52
L43	0	Degree adj of adj Desynchronization	USPAT	OR	OFF	2005/10/19 14:52
L44	1000670	Degree adj\$2 of adj\$2 Desynchronization	USPAT	OR	OFF	2005/10/19 14:52
L45	3585	(Degree adj\$2 of adj\$2 Desynchronization) and Ping	USPAT	OR	OFF	2005/10/19 14:52
L46	966	((Degree adj\$2 of adj\$2 Desynchronization) and Ping) and (packet adj\$2 stream)	USPAT	OR	OFF	2005/10/19 14:52
L47	2	(((Degree adj\$2 of adj\$2 Desynchronization) and Ping) and (packet adj\$2 stream)) and (burst adj packet)	USPAT	OR	OFF	2005/10/19 14:52
L48	127118	(Degree adj\$2 of adj\$2 Desynchronization) and error	USPAT	OR	OFF	2005/10/19 14:52

L49	0	((Degree adj\$2 of adj\$2 Desynchronization) and error) and (length adj (packet adj burst))	USPAT	OR	OFF	2005/10/19 14:52
L50	74390	((Degree adj\$2 of adj\$2 Desynchronization) and error) and length	USPAT	OR	OFF	2005/10/19 14:52
L51	37	(((Degree adj\$2 of adj\$2 Desynchronization) and error) and length) and (packet adj burst)	USPAT	OR	OFF	2005/10/19 14:52
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L84	2	((((Degree adj\$2 of adj\$2 Desynchronization) and Ping) and (packet adj\$2 stream)) and (burst adj packet)	USPAT	OR	OFF	2005/10/19 14:53
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L86	0	((Degree adj\$2 of adj\$2 Desynchronization) and error) and (length adj (packet adj burst))	USPAT	OR	OFF	2005/10/19 14:53
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L92	4320	(709/204,224,223).CCLS.	USPAT	OR	OFF	2005/10/19 15:49
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S2	31	Ping and (ICMP adj echo adj request)	USPAT	OR	OFF	2004/09/22 10:08
S3	7	("6064653" "6091733" "6195046" "6215772" "6243761" "6259699" "6266337").PN.	USPAT	OR	OFF	2004/09/22 09:41
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S7	31	Ping and (ICMP adj echo adj request)	USPAT	OR	OFF	2004/09/22 10:09
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S26	0	Degree adj of adj Desynchronization	USPAT	OR	OFF	2004/09/23 15:15
S27	950334	Degree adj\$2 of adj\$2 Desynchronization	USPAT	OR	OFF	2004/09/23 15:15
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S29	826	((Degree adj\$2 of adj\$2 Desynchronization) and Ping) and (packet adj\$2 stream)	USPAT	OR	OFF	2004/09/23 15:16
S30	1	(((Degree adj\$2 of adj\$2 Desynchronization) and Ping) and (packet adj\$2 stream)) and (burst adj packet)	USPAT	OR	OFF	2004/09/23 15:18
S31	118007	(Degree adj\$2 of adj\$2 Desynchronization) and error	USPAT	OR	OFF	2004/09/23 15:18
S32	0	((Degree adj\$2 of adj\$2 Desynchronization) and error) and (length adj (packet adj burst))	USPAT	OR	OFF	2004/09/23 15:19
S33	68733	((Degree adj\$2 of adj\$2 Desynchronization) and error) and length	USPAT	OR	OFF	2004/09/23 15:19
S34	33	(((Degree adj\$2 of adj\$2 Desynchronization) and error) and length) and (packet adj burst)	USPAT	OR	OFF	2004/09/23 15:19
S35	3	"6757255"	USPAT	OR	OFF	2005/05/05 15:57
S36	31	(Ping and (ICMP adj echo adj request)) and @ad<"20010330"	USPAT	OR	OFF	2005/05/05 16:47
S37	5	"6757255"	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/10/19 13:31

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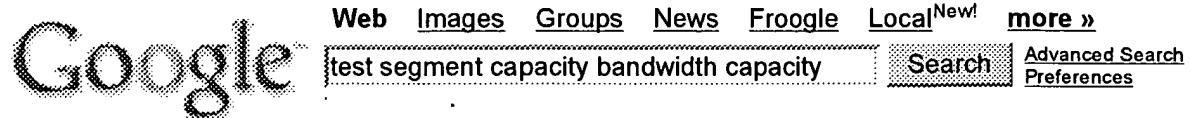
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1 [Communication systems: Software-directed power-aware interconnection networks](#)

Vassos Soteriou, Noel Eisley, Li-Shiuan Peh

September 2005 **Proceedings of the 2005 international conference on Compilers, architectures and synthesis for embedded systems CASES '05**

Publisher: ACM Press

Full text available: [pdf\(895.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interconnection networks have been deployed as the communication fabric in a wide range of parallel computer systems. With recent technological trends allowing growing quantities of chip resources and faster clock rates, there have been prevailing concerns of increasing power consumption being a major limiting factor in the design of parallel computer systems, from multiprocessor SoCs to multi-chip embedded systems and parallel servers. To tackle this, power-aware networks must become inherent c ...

Keywords: communication links, dynamic voltage, interconnection networks, networks on-a-chip (NoC), scaling, simulation, software-directed power reduction

2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 [Traffic generation and analysis: Self-configuring network traffic generation](#)

Joel Sommers, Paul Barford

October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**

Publisher: ACM Press

Full text available:  pdf(1.22 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The ability to generate repeatable, realistic network traffic is critical in both simulation and testbed environments. Traffic generation capabilities to date have been limited to either simple sequenced packet streams typically aimed at throughput testing, or to application-specific tools focused on, for example, recreating representative HTTP requests. In this paper we describe Harpoon, a new application-independent tool for generating representative packet traffic at the <i>IP flow level ...

Keywords: network flows, traffic generation

4 A QoS adaptive transport system: design, implementation and experience 

Andrew Campbell, Geoff Coulson
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available:  pdf(1.29 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Denial-of-service: A framework for classifying denial of service attacks 

Alefia Hussain, John Heidemann, Christos Papadopoulos
August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**

Publisher: ACM Press

Full text available:  pdf(622.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Launching a denial of service (DoS) attack is trivial, but detection and response is a painfully slow and often a manual process. Automatic classification of attacks as single- or multi-source can help focus a response, but current packet-header-based approaches are susceptible to spoofing. This paper introduces a framework for classifying DoS attacks based on header content, and novel techniques such as transient ramp-up behavior and spectral analysis. Although headers are easily forged, we sho ...

Keywords: denial of service attacks, measurement, security, time series analysis

6 An Efficient Data Location Protocol for Self-organizing Storage Clusters 

Hong Tang, Tao Yang
November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society

Full text available:  pdf(345.61 KB) Additional Information: [full citation](#), [abstract](#)

Component additions and failures are common for large-scale storage clusters in production environments. To improve availability and manageability, we investigate and compare data location schemes for a large self-organizing storage cluster that can quickly adapt to the additions or departures of storage nodes. We further present an efficient location scheme that differentiates between small and large file blocks for reduced management overhead compared to uniform strategies. In our protocol, sm ...

7 Routing and MAC: Versatile low power media access for wireless sensor networks 

Joseph Polastre, Jason Hill, David Culler
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

Publisher: ACM Press

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  pdf(529.51 KB)

[index terms](#)

We propose <i>B-MAC</i>, a carrier sense media access protocol for wireless sensor networks that provides a flexible interface to obtain ultra low power operation, effective collision avoidance, and high channel utilization. To achieve low power operation, <i>B-MAC</i> employs an adaptive preamble sampling scheme to reduce duty cycle and minimize idle listening. <i>B-MAC</i> supports on-the-fly reconfiguration and provides bidirectional interfaces for system services t ...

Keywords: communication interfaces, energy efficient operation, media access protocols, networking, reconfigurable protocols, wireless sensor networks

8 Papers: YESSIR: a simple reservation mechanism for the Internet



 Ping Pan, Henning Schulzrinne

April 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

RSVP has been designed to support resource reservation in the Internet. However, it has two major problems: complexity and scalability. The former results in large message processing overhead at end systems and routers, and inefficient firewall processing at the edge of the network. The latter implies that in a backbone environment, the amount of bandwidth consumed by refresh messages and the storage space that is needed to support a large number of flows at a router are too large. We have devel ...

9 vic: a flexible framework for packet video



 Steven McCanne, Van Jacobson

January 1995 **Proceedings of the third ACM international conference on Multimedia**

Publisher: ACM Press

Full text available:  html(67.64 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: conferencing protocols, digital video, image and video compression and processing, multicasting, networking and communication

10 Understanding performance in coliseum, an immersive videoconferencing system



 H. Harlyn Baker, Nina Bhatti, Donald Tanguay, Irwin Sobel, Dan Gelb, Michael E. Goss, W.

Bruce Culbertson, Thomas Malzbender

May 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available:  pdf(11.79 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Coliseum is a multiuser immersive remote teleconferencing system designed to provide collaborative workers the experience of face-to-face meetings from their desktops. Five cameras are attached to each PC display and directed at the participant. From these video streams, view synthesis methods produce arbitrary-perspective renderings of the participant and transmit them to others at interactive rates, currently about 15 frames per second. Combining these renderings in a shared synthetic environm ...

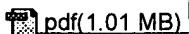
Keywords: 3D virtual environments, Telepresence, network applications, performance measurement, streaming media, videoconferencing, view synthesis

11 Queue pair IP: a hybrid architecture for system area networks

◆ Philip Buonadonna, David Culler

May 2002 **ACM SIGARCH Computer Architecture News**, Volume 30 Issue 2**Publisher:** IEEE Computer Society , IEEE Computer Society , ACM Press

Full text available:

[pdf\(1.01 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
[Publisher Site](#)

We propose a SAN architecture called Queue Pair IP (QPIP) that combines the interface from industry proposals for low overhead, high bandwidth networks, e.g. Infiniband, with the well established inter-network protocol suite. We evaluate how effectively the queue pair abstraction enables inter-network protocol offload. We develop a prototype QPIP system that implements basic queue pair operations over a subset of TCP, UDP and IPv6 protocols using a programmable network adapter. We assess this pr ...

Keywords: Interconnection Networks, Network Interfaces, Internetworking, Distributed Computing

12 Energy efficiency in system design: Fast system-level power profiling for battery-efficient system design

◆ Kanishka Lahiri, Anand Raghunathan, Sujit Dey

May 2002 **Proceedings of the tenth international symposium on Hardware/software codesign****Publisher:** ACM Press

Full text available:

[pdf\(687.01 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An increasing disparity between the energy requirements of portable electronic devices and available battery capacities is driving the development of new design methodologies for battery-efficient systems. A crucial requirement for battery efficient system design is to be able to efficiently and accurately estimate battery life for candidate system architectures. Recently, efficient techniques have been developed to estimate battery life under given profiles of system power consumption over time. ...

13 Session 3: inference and statistical analysis: A signal analysis of network traffic anomalies

◆ Paul Barford, Jeffery Kline, David Plonka, Amos Ron

November 2002 **Proceedings of the 2nd ACM SIGCOMM Workshop on Internet measurement****Publisher:** ACM Press

Full text available:

[pdf\(1.52 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

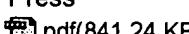
Identifying anomalies rapidly and accurately is critical to the efficient operation of large computer networks. Accurately characterizing important classes of anomalies greatly facilitates their identification; however, the subtleties and complexities of anomalous traffic can easily confound this process. In this paper we report results of signal analysis of four classes of network traffic anomalies: outages, flash crowds, attacks and measurement failures. Data for this study consists of IP flow ...

14 Supporting video in heterogeneous mobile environments

◆ Nicholas Yeadon, Nigel Davies, Adrian Friday, Gordan Blair

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing****Publisher:** ACM Press

Full text available:

[pdf\(841.24 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: H263, VLBR video, heterogeneity, overlay networks

15 Running EveryWare on the computational grid

Rich Wolski, John Brevik, Chandra Krintz, Graziano Obertelli, Neil Spring, Alan Su
 January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: ACM Press

Full text available:  pdf(414.73 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



16 SPARTAN: a model-based semantic compression system for massive data tables

Shivnath Babu, Minos Garofalakis, Rajeev Rastogi
 May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Publisher: ACM Press , ACM Press

Full text available:  pdf(240.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



While a variety of lossy compression schemes have been developed for certain forms of digital data (e.g., images, audio, video), the area of lossy compression techniques for arbitrary data tables has been left relatively unexplored. Nevertheless, such techniques are clearly motivated by the ever-increasing data collection rates of modern enterprises and the need for effective, guaranteed-quality approximate answers to queries over massive relational data sets. In this paper, we propose *SPA* ...

17 Mobile wireless networks: SMM: mathematical framework of a scalable mobility model

D R. Basgeet, P. Dugenie, A. Munro, D. Kaleshi, J. Irvine
 September 2003 **Proceedings of the 6th ACM international workshop on Modeling analysis and simulation of wireless and mobile systems**

Publisher: ACM Press

Full text available:  pdf(326.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



In this paper, we present a novel mathematical framework of a mobility model that can be applied to a large number of possible horizontal environments, ranging from local area networks (LANs) to wide area networks (WANs) for the prediction and tracking of mobile users. This new mobility model, termed 'Scalable Mobility Model' (SMM), provides a realistic set of paths for both individual and aggregate subscriber movement by assigning mobile users into specific classes of mobility based on their mo ...

Keywords: cellular planning and deployment, mobile networks, mobility management, mobility models, radio resource management

18 Composable code generation for distributed giotto

Thomas A. Henzinger, Christoph M. Kirsch, Slobodan Matic
 June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems LCTES'05**, Volume 40 Issue 7

Publisher: ACM Press , ACM Press

Full text available:  pdf(294.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



We present a compositional approach to the implementation of hard real-time software running on a distributed platform. We explain how several code suppliers, coordinated by

a system integrator, can independently generate different parts of the distributed software. The task structure, interaction, and timing is specified as a Giotto program. Each supplier is given a part of the Giotto program and a timing interface, from which the supplier generates task and scheduling code. The integrator then ...

Keywords: distributed compilation, real time

- 19 [Broadcast and on-line cultural heritage: Broadcast technologies for disseminating cultural heritage](#) 

John Cosmas, Take Itegaki, Kannan Krishnapillai, Alan Lucas, Mohammed Akhtar, Graham Thomas, Jigna Chandaria, Wolfgang Putz, Andre Everts, Michael Probst, Peter Stammnitz, Jens Guether, Wolfram Liebsch, Gerhard Stoll, Christoph Dosch Reiner Socker, Chris Brendes, Ronald Mies, Dick Van Smirren, Benoit Mory, Nicolas Santini, Alan Pearmain, Yakup Paker, Mounia Lalmas, Damien Parwporth, Ekaterina Moutogianni, Gunn Klungsoeyr, Lena Pedersen, Pers-Steinar Hansen, Klaus Illgner
 November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**

Publisher: ACM Press

Full text available:  pdf(1.03 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper introduces the System for Advanced Multimedia Broadcast and IT Services (SAMBITS). It consists of a Studio, Server and TV Terminal system for broadcasting audio/video TV content enhanced by 3D graphics, Internet pages, database indexing and sub-image streaming. It describes two scenarios program for disseminating cultural heritage. The readers are invited to imagine how this system could be used to prepare programs for disseminating archaeology. The paper describes the Studio and Serv ...

- 20 [An Implementation of the SSF Scalable Simulation Framework on the Cray MTA](#) 

Robert R. Henry, Simon H. Kahan, Jason Liu, David M. Nicol

June 2003 **Proceedings of the seventeenth workshop on Parallel and distributed simulation**

Publisher: IEEE Computer Society

Full text available:  pdf(164.29 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

 [Publisher Site](#)

Large-scale parallel discrete event simulations of massive networks, such as the Internet, are "Grand Challenge" problems: packet level simulation of even a small fraction of the Internet would consume the resources of the most powerful computers available. We reimplement the SSF Scalable Simulation Framework so we can run large-scale network simulations originally written for DaSSF. Our implementation, CraySSF, is designed for the Cray-MTA, a multithreaded supercomputer architecture developed specifica ...

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